

Alarm Troubleshooting Summary For Hirt VCS 100 Processor

Hirt VCS 100 Troubleshooting Summary				
VCS 100 Indicator Panel	Category	Light	Cause	Recommended Troubleshooting
OVERPRESSURE LIGHT	VCS 100 Processor or System	Red	UST ullage pressure is positive for at least 1 continuous hour.	<p>GDF Owner/Operator Responsibilities:</p> <ul style="list-style-type: none"> • “Weekly Inspections” of Hanging Hardware as specified in section 5 of Installation, Operation, and Maintenance Manual. • “Drive-Offs and Other Customer Abuse” as specified in section 8 of Installation, Operation, and Maintenance Manual. • Exhibit 7 of Executive Order VR-208 • Record findings in GDF Owner/Operator Maintenance Log. <p>Certified Contractor Responsibilities:</p> <ul style="list-style-type: none"> • Follow VCS 100 Troubleshooting Guide (Contact Hirt by either Phone: (562) 692-6970 or by email: HirtVCS@aol.com to get Guide) • TP-201.3 and Exhibit 4 of Executive Order VR-208 • Exhibit 7 of Executive Order VR-208 • Exhibit 8 of Executive Order VR-208 • Record findings in GDF Owner/Operator Maintenance Log.

In-Station Diagnostic (ISD) Alarm Troubleshooting Summary

INCON ISD Troubleshooting Summary				
INCON Vapor Recovery Monitor (VRM)	Category	Type	Definition	Recommended Troubleshooting
Daily Vapor Collection, Fueling Point (n)*	VRM	Warning or Failure	This vapor recovery alarm occurs when the vapors being returned to the UST are blocked or a reduction in flow has been determined.	May be caused by leaking hanging hardware, blocked hoses or vapor recovery lines, jammed flow meter. Run Exhibit 10 of VR-208 to verify a blockage. Check for leaks by viewing the vanes through the sight glass on the VRM.
Weekly or Monthly Ullage Pressure*	VRM	Warning or Failure	This vapor recovery alarm occurs when the UST ullage pressure exceeds the alarm threshold for the time period specified in the alarm.	May be caused by a malfunction in the Hirt VCS 100. Perform a check on the processor and make sure it is turned on and processing vapors.
Weekly Ullage Pressure Leak Test*	VRM	Warning or Failure	This vapor recovery alarm occurs when the VRM determines a leak greater than the allowable	May occur when there is an excessive leak in the vapor recovery containment area. Perform a static pressure decay test per TP-201.3.
Vapor Processor Warning	VRM	Warning Only	Occurs when processor run time exceeds 62 continuous minutes, or processor is shutoff, or input to ISD console is disconnected	Hirt VCS 100 is not running or operating properly. Leak in the vapor recovery containment area. Perform Exhibit 8 of VR-208-A. Perform a static pressure decay test per TP-201.3 to verify system integrity and identify leak(s)
Vapor Processor Malfunction*	VRM	Warning or Failure	Occurs when the ullage pressure exceeds 2.00 inches water column gauge (WCG) for 144 minutes in one day (90 th percentile > 2.00" WCG)	Hirt VCS 100 is not running or operating properly. Leak in the vapor recovery containment area. Perform Exhibit 8 of VR-208-A. Perform a static pressure decay test per TP-201.3 to verify system integrity and identify leak(s)
Channel (n), missing	VRM	Alarm	A flow meter is not connected or there is an open in the wiring. This will only occur for a flow meter channel that is programmed to have a flow meter.	Check the connection. Measure the voltage of the terminals, which should be approximately 18VDC
Channel (n), error	VRM	Alarm	The VRM does not understand the data transmission.	This may happen when a channel is programmed for a magnostriptive probe but has a vapor flow meter connected instead.

INCON ISD Troubleshooting Summary				
INCON Vapor Recovery Monitor (VRM)	Category	Type	Definition	Recommended Troubleshooting
External TS-DIM Connection Down	VRM	Alarm	No communication between the TS-DIM and the Console.	Occurs with bad connection, TS-DIM does not have power, TS-DIM is not working. Check the wiring between the TS-DIM and the Console. Check the jumper settings in the TS-DIM, see Section 15 of this IOM
TS-DIM Read Data Error	VRM	Alarm	Bad communication to the Console.	Most likely a baud rate problem. Check the baud rate in the Console as well as the jumper settings in the TS-DIM.
External Automatic Tank Gauge (ATG) Connection Down	VRM	Alarm	No communication or bad communication between the ATG and the Console	Check the Communication Port settings in both the ATG and the Console. These settings should match. Make sure there is a straight serial cable between the ATG and the Console.
(i) Module is offline, <i>where i is the module number</i>	System	Alarm	Occurs when a module is not communicating with the controller.	If RED LED is on or Green LED is blinking, try cycling power.
(i) Module number mismatch, <i>where i is the module number</i>	System	Alarm	Occurs when the number of modules does not match the programmed number of modules	Check the setup at System Configuration >>Modules Expected to see if the correct numbers are programmed.

* If they progress to failure, these ISD alarms will result in shutdown.